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It is essential, in order to prevent and cure the disease, that the laymen and physicians of the community, whether the community is large or small, should forget their little social, political, or religious differences, and work hand in hand for the common good.

From what has been said it will be seen what a great task the health officer of a small community has before him if he wishes successfully to combat tuberculosis. It would certainly seem easier in the larger cities, but there is one advantage the health officer of a small community has over his colleague in the city, and that is the knowledge of existing conditions by personal observation. If he will but have it for his maxim to make earnest and conscientious war against tuberculosis, but no war against the tuberculous invalid; if he has the greatest consideration for the welfare of the latter and thus for the welfare of the community at large, the health officer is bound to succeed; he will ingratiate himself with his fellow practitioners and with the community which he serves.

**PLAGUE-ERADICATIVE WORK.**  
**CALIFORNIA.**

The following reports of plague-eradication work in California have been received from Passed Asst. Surg. Hurley, of the United States Public Health Service, in temporary charge of the work:

WEEK ENDED NOVEMBER 21, 1914.

| SAN FRANCISCO, CAL.                     |       | RATS IDENTIFIED.      |     |
|---|-------|-----------------------|-----|
| Premises inspected.....                 | 1,659 | Mus norvegicus.....   | 15  |
| Premises destroyed.....                 | 11    | Mus rattus.....       | 84  |
| Nuisances abated.....                   | 241   | Mus alexandrinus..... | 100 |
| Poisons placed.....                     | 5,400 | Mus musculus.....     | 77  |
| Average number of traps set daily.....  | 875   |                       |     |
| RATS COLLECTED AND EXAMINED FOR PLAGUE. |       |                       |     |
| Collected.....                          | 276   |                       |     |
| Examined.....                           | 164   |                       |     |
| Found infected.....                     | 0     |                       |     |

*Squirrels collected and examined for plague.*

| County.           | Collected. | Examined. | Found infected. |
|-------------------|------------|-----------|-----------------|
| Contra Costa..... | 67         | 67        | None.           |
| San Benito.....   | 29         | 29        | Do.             |
| Total.....        | 96         | 96        | Do.             |

*Ranches inspected and hunted over.*

|                          |    |
|--------------------------|----|
| Contra Costa County..... | 26 |
| San Benito County.....   | 6  |
| Total.....               | 32 |

*Operations on water front.*

|  |    |
|--|----|
| Vessels inspected for rat guards .....     | 22 |
| Reinspections made on vessels .....        | 17 |
| New rat guards procured .....              | 14 |
| Defective rat guards repaired .....        | 36 |
| Vessels on which cargo was inspected ..... | 1  |

|  | Condition. | Rat evidence. |
|--|------------|---------------|
| Steamer Admiral Farragut from Seattle:                       |            |               |
| 200 barrels, empty .....                                     | O. K. .... | None.         |
| 250 cases condensed milk .....                               | O. K. .... | None.         |
| 20 rolls paper .....   | O. K. .... | None.         |
| 500 sacks shorts .....                                       | O. K. .... | None.         |
| Rats trapped on wharves and water front .....                |            | 9             |
| Rats trapped on vessels .....                                |            | 24            |
| Traps set on wharves and water front .....                   |            | 107           |
| Traps set on vessels .....                                   |            | 75            |
| Vessels trapped on .....                                     |            | 11            |
| Poisons placed on water front (pieces) .....                 |            | 7,200         |
| Bait used on water front and vessels bacon (pounds) .....    |            | 5             |
| Amount of bread used in poisoning water front (loaves) ..... |            | 24            |
| Pounds of poison used on water front .....                   |            | 12            |

The work is being carried on in the following named counties: Alameda, Contra Costa, San Francisco, San Joaquin, Santa Cruz, Merced, Stanislaus, San Benito, and Santa Clara.

WEEK ENDED NOV. 28, 1914.

| SAN FRANCISCO, CAL.   | SAN FRANCISCO, CAL.—Continued.  |
|---|---|
| <b>RAT PROOFING.</b>  | <b>RAT PROOFING—continued.</b>  |
| Inspections of new buildings under construction .....                           | Yards, passageways, etc., concreted (sq. ft., 10,928) .....               |
| Basements concreted, new buildings (sq. ft., 49,735) .....                      | Total area of concrete laid in old premises (sq. ft., 48,476) .....       |
| Floors concreted, new buildings (sq. ft., 33,997) .....                         | Floors, old buildings, rat proofed with wire cloth (sq. ft., 7,760) ..... |
| Yards, passageways, etc., new buildings (sq. ft., 77,989) .....                 | Buildings razed .....   |
| Total area of concrete laid, new premises (sq. ft., 161,712) .....              | New garbage cans stamped approved .....                                   |
| Inspections class A, B, and C (fireproof) buildings .....                       | Nuisances abated .....  |
| Roof and basement ventilators, etc., class A, B, and C buildings screened ..... | <b>RATS COLLECTED AND EXAMINED FOR PLAGUE.</b>                            |
| Openings around pipes, etc., closed with cement .....                           | Collected .....   |
| Sidewalk lens lights replaced .....   | Examined .....  |
| Inspections, old buildings .....  | Pound infected .....  |
| Wooden floors removed, old buildings .....                                      | <b>RATS IDENTIFIED.</b>   |
| Yards and passageways planking removed .....                                    | Mus norvegicus .....  |
| Cubic feet new foundation walls installed, old buildings .....                  | Mus rattus .....  |
| Concrete floors installed, old buildings (sq. ft., 14,898) .....                | Mus alexandrinus .....  |
| Number of basements concreted, old buildings (sq. ft., 22,650) .....            | Mus musculus .....  |
|   | <b>SQUIRRELS COLLECTED AND EXAMINED FOR PLAGUE.</b>                       |
|   | Contra Costa County .....   |
|   | San Benito County .....   |
|   | Total .....   |
|   | Found infected .....  |

*Record of plague infection.*

| Places in California.                            | Date of last case of human plague. | Date of last case of rat plague. | Date of last case of squirrel plague. | Total number rodents found infected since May, 1907. |
|--|------------------------------------|----------------------------------|---------------------------------------|--|
| <b>Cities:</b>                                   |                                    |                                  |                                       |  |
| San Francisco.....                               | Jan. 30, 1908                      | Oct. 23, 1908                    | None.....                             | 398 rats.  |
| Oakland.....                                     | Aug. 9, 1911                       | Dec. 1, 1908                     | .....do.....                          | 126 rats.  |
| Berkeley.....                                    | Aug. 28, 1907                      | None.....                        | .....do.....                          | None.  |
| Los Angeles.....                                 | Aug. 11, 1908                      | .....do.....                     | Aug. 21, 1908                         | 1 squirrel.  |
| <b>Counties:</b>                                 |                                    |                                  |                                       |  |
| Alameda (exclusive of Oakland and Berkeley)..... | Sept. 24, 1909                     | Oct. 17, 1909 <sup>1</sup>       | Aug. 7, 1914                          | 286 squirrels, 1 wood rat.                           |
| Contra Costa.....                                | May 17, 1914                       | None.....                        | Oct. 23, 1914                         | 1,565 squirrels.                                     |
| Fresno.....                                      | None.....                          | .....do.....                     | Oct. 27, 1911                         | 1 squirrel.  |
| Merced.....                                      | .....do.....                       | .....do.....                     | July 12, 1911                         | 5 squirrels.   |
| Monterey.....                                    | .....do.....                       | .....do.....                     | Apr. 10, 1914                         | 6 squirrels.   |
| San Benito.....                                  | June 4, 1913                       | .....do.....                     | Sept. 26, 1914                        | 36 squirrels.  |
| San Joaquin.....                                 | Sept. 18, 1911                     | .....do.....                     | Aug. 26, 1911                         | 18 squirrels.  |
| San Luis Obispo.....                             | None.....                          | .....do.....                     | Jan. 29, 1910                         | 1 squirrel.  |
| Santa Clara.....                                 | Aug. 31, 1910                      | .....do.....                     | July 23, 1913                         | 25 squirrels.  |
| Santa Cruz.....                                  | None.....                          | .....do.....                     | May 17, 1910                          | 3 squirrels.   |
| Stanislaus.....                                  | .....do.....                       | .....do.....                     | June 2, 1911                          | 13 squirrels.  |

<sup>1</sup> Wood rat.

| RANCHES INSPECTED AND HUNTED OVER. |    | OPERATIONS ON THE WATER FRONT.            |    |
|------------------------------------|----|---|----|
| Contra Costa Co.....               | 13 | Vessels inspected for rat guards.....     | 27 |
| San Benito Co.....                 | 9  | Reinspections made on vessels.....        | 14 |
|                                    |    | New rat guards procured.....              | 5  |
| Total.....                         | 22 | Defective rat guards repaired.....        | 2  |
|                                    |    | Vessels on which cargo was inspected..... | 1  |

|                                | Condition | Fat evidence. |
|--------------------------------|-----------|---------------|
| Steamer Congress from Seattle: |           |               |
| 500 cases condensed milk.....  | O. K..... | None.         |
| 1,000 sacks flour.....         | O. K..... | Do.           |

|   |        |
|---|--------|
| Rats trapped on wharves and water front.....                | 1)     |
| Rats trapped on vessels.....                                | 16     |
| Traps set on wharves and water front.....                   | 105    |
| Vessels trapped on.....                                     | 19     |
| Traps set on vessels.....                                   | 76     |
| Poisons placed on water front.....                          | 1,800  |
| Poisons placed within P. P. I. E. grounds.....              | 7,200  |
| Bait used on water front and vessels, bacon (pounds).....   | 6      |
| Amount of bread used in poisoning water front (loaves)..... | 6      |
| Pounds of poison used on water front.....                   | 3      |
| Total number of poisons placed.....                         | 11,100 |
| Average number of traps set daily.....                      | 864    |

The work is being carried on in the following-named counties: Alameda, Contra Costa, San Francisco, San Joaquin, Santa Cruz, Merced, Stanislaus, San Benito, and Santa Clara.

**LOUISIANA—NEW ORLEANS.****Chronic Plague among Rats in New Orleans.**

Surg. Corput, of the United States Public Health Service, made the following report November 28, 1914, on the finding of chronic plague among rats in New Orleans:

Rodent case 203 and rodent case 204 are the first cases of resolving (chronic) rodent plague discovered in New Orleans, and inject into the problem of plague eradication a very serious factor.

Rodent case 203 was from 826 North Claiborne Street. No acute rodent plague has ever been discovered on the premises, and the last case of rodent plague taken in this locality was rodent case 182, on October 11, at 926 North Liberty Street, which address is more than five blocks distant from 826 North Claiborne Street.

Rodent case 204 was taken from Westwego Dumps, in Jefferson Parish, across the river from Audubon Park and in the vicinity of large grain elevators. Realizing the possibility of rodent extension across the river and to these elevators, which furnish considerable attraction for a large rodent population, a trapping force has been constantly at work since the early part of the campaign. No acute rodent plague has been discovered there, despite the fact that this case of resolving rodent plague would indicate that there had been previous rodent infection.

How long the *B. pestis* may remain viable in the tissues of a "resolving plague" rodent has never been determined, but it would seem probable that some such condition of prolonged viability of the organism must be the source of the "bridging" between rodent epizootics having a lengthy interval of time.

The chronicity and tenacity of rodent and human plague in India is, I believe, largely attributed by the Indian authorities to resolving plague in rats. The prevention of a similar condition in New Orleans now becomes an added feature to the eradication campaign. It will probably cause a longer campaign than has been estimated, as well as prolong the post-eradication work.

On November 30, 1914, Surg. Corput further reported:

One additional case of resolving (chronic) rodent plague has been discovered in a rat captured at the corner of Tchoupitoulas and Eleanore Streets. As in the other cases reported, at no other time during the progress of eradication work has an acute rodent plague case been taken in this neighborhood, the nearest one being 27 squares away. Intensive trapping will be started in the vicinity immediately.

#### Report for Week Ended December 5, 1914.

The following report of plague-eradication work at New Orleans for the week ended December 5, 1914, has been received from Surg. Corput, of the United States Public Health Service, in temporary charge of the work:

| OUTGOING QUARANTINE.  |        | DESTINATION AND NUMBER OF RAILROAD<br>CARS INSPECTED WEEK ENDED DEC. 5. |     |
|---|--------|---|-----|
| Vessels fumigated with sulphur.....                                 | 21     | Alabama.....  | 115 |
| Vessels fumigated with carbon monoxide....                          | 21     | Arizona.....  | 1   |
| Vessels fumigated with hydrocyanic gas....                          | 2      | Arkansas.....   | 11  |
| Pounds of sulphur used.....   | 4,757  | California.....   | 15  |
| Coke consumed in carbon monoxide fumigation.....                    | 31,600 | Carolina, North.....  | 2   |
| Pounds of potassium cyanide used in hydrocyanic gas fumigation..... | 170    | Carolina, South.....  | 5   |
| Pounds of sodium carbonate used in hydrocyanic gas fumigation.....  | 170    | Colorado.....   | 42  |
| Pounds of sulphuric acid used in hydrocyanic gas fumigation.....    | 280    | Dakota, South.....  | 16  |
| Clean bills of health issued.....                                   | 33     | Delaware.....   | 1   |
| Foul bills of health issued.....                                    | 13     | Florida.....  | 47  |
|   |        | Georgia.....  | 34  |
|   |        | Illinois.....   | 241 |
|   |        | Indiana.....  | 38  |
|   |        | Iowa.....   | 11  |
|   |        | Kansas.....   | 4   |
|   |        | Kentucky.....   | 30  |
|   |        | Louisiana.....  | 971 |
|   |        | Maryland.....   | 1   |
|   |        | Massachusetts.....  | 2   |
|   |        | Michigan.....   | 29  |
|   |        | Minnesota.....  | 1   |
| OVERLAND FREIGHT INSPECTION.  |        |   |     |
| Cars inspected, found in good order, permitted to load.....         | 1,027  |   |     |
| Cars ordered repaired before loading.....                           | 1,667  |   |     |
| Cars condemned.....   | 0      |   |     |
| Total cars inspected.....   | 2,694  |   |     |
| Rodents killed in cars.....   | 0      |   |     |

DESTINATION AND NUMBER OF RAILROAD  
CARS INSPECTED WEEK ENDED DEC. 5—  
continued.

|                    |     |
|--------------------|-----|
| Mississippi.....   | 404 |
| Missouri.....      | 78  |
| Nebraska.....      | 13  |
| New Jersey.....    | 2   |
| New York.....      | 22  |
| Ohio.....          | 108 |
| Oklahoma.....      | 12  |
| Oregon.....        | 6   |
| Pennsylvania.....  | 16  |
| Tennessee.....     | 89  |
| Texas.....         | 214 |
| Utah.....          | 6   |
| Virginia.....      | 2   |
| West Virginia..... | 1   |
| Washington.....    | 1   |
| Wisconsin.....     | 5   |
| Canada.....        | 1   |

FIELD OPERATIONS.

|                                     |       |
|-------------------------------------|-------|
| Number of rats trapped.....         | 7,941 |
| Number of premises fumigated.....   | 0     |
| Number of premises disinfected..... | 66    |

FIELD OPERATIONS—continued.

|                                   |       |
|-----------------------------------|-------|
| Number of premises inspected..... | 9,139 |
| Poisons placed.....               | 0     |
| Notices served.....               | 2,275 |

BUILDINGS RAT-PROOFED.

|                                    |        |
|------------------------------------|--------|
| By elevation.....                  | 41     |
| By marginal concrete wall.....     | 134    |
| By concrete floor and walls.....   | 294    |
| By minor repairs.....              | 149    |
| Square yards of concrete laid..... | 20,043 |
| Total buildings rat-proofed.....   | 618    |
| Buildings rat-proofed to date..... | 5,294  |
| Number of abatements.....          | 377    |
| Number of abatements to date.....  | 15,340 |

LABORATORY OPERATIONS.

|   |       |
|---|-------|
| Rodents examined.....                     | 7,462 |
| Mus norvegicus.....                       | 3,553 |
| Mus rattus.....                           | 70    |
| Mus alexandrinus.....                     | 275   |
| Mus musculus.....                         | 3,824 |
| Putrid.....                               | 284   |
| Total rodents received at laboratory..... | 7,734 |
| Number of suspicious rats.....            | 77    |
| Plague rats confirmed.....                | 3     |

*Rodent cases.*

| Case No. | Address.                     | Captured.  | Diagnosis confirmed.     | Treatment of premises.  |
|----------|------------------------------|------------|--------------------------|---|
| 206      | Eleanore and Tchoupitoulas.  | Nov. 21... | Nov. 30(chronic plague). | Intensive trapping. Rat proofing initiated.                                       |
| 207      | 917 Touro Street.....        | Nov. 30... | Dec. 1.....              | Rat proofing initiated. Intensive trapping.                                       |
| 208      | Cortez and Toulouse Streets. | Nov. 26... | Dec. 2.....              | Summary destruction of rat harborage. Intensive trapping. Rat proofing initiated. |

|   |         |
|---|---------|
| Total number of rodents captured to Dec. 5..... | 175,235 |
| Total number of rodents examined to Dec. 5..... | 151,369 |

Rodent cases to Dec. 5, by species:

|                       |     |
|-----------------------|-----|
| Mus rattus.....       | 10  |
| Mus alexandrinus..... | 3   |
| Mus musculus.....     | 1   |
| Mus norvegicus.....   | 194 |

|                                   |     |
|-----------------------------------|-----|
| Total rodent cases to Dec. 5..... | 208 |
|-----------------------------------|-----|

WASHINGTON—SEATTLE.

The following report of plague-eradication work at Seattle for the week ended November 21, 1914, has been received from Surg. Lloyd, of the United States Public Health Service, in charge of the work.

## RAT PROOFING.

|  |        |
|--|--------|
| New buildings inspected.....                             | 62     |
| Basements concreted, new buildings (24),<br>sq. ft.....  | 18,651 |
| Floors concreted, new buildings (9), sq. ft.....         | 61,356 |
| Yards, etc., concreted, new buildings (4)<br>sq. ft..... | 485    |
| Sidewalks concreted, sq. ft.....                         | 6,480  |
| Total concrete laid, new structures,<br>sq. ft.....      | 86,972 |
| New buildings elevated.....                              | 6      |
| New premises rat proofed, concrete.....                  | 53     |
| Old buildings inspected.....                             | 7      |
| Buildings razed.....                                     | 4      |

## WATER FRONT.

|  |       |
|--|-------|
| Vessels inspected and histories recorded.... | 9     |
| Vessels fumigated.....                       | 9     |
| Sulphur used, pounds.....                    | 3,200 |
| New rat guards installed.....                | 20    |
| Defective rat guards repaired.....           | 26    |
| Vessels searched for dead rats.....          | 6     |

## WATER FRONT--continued.

|   |    |
|---|----|
| Dead rats recovered after fumigation..... | 52 |
| Fumigation certificates issued.....       | 9  |
| Canal Zone certificates issued.....       | 3  |
| Port sanitary statements issued.....      | 40 |

## LABORATORY AND RODENT OPERATIONS.

|  |       |
|--|-------|
| Dead rodents received.....                 | 34    |
| Rodents trapped and killed.....            | 362   |
| Total.....                                 | 396   |
| Rodents examined for plague infection..... | 270   |
| Rodents proven plague infected.....        | 2     |
| Blocks poisoned.....                       | 40    |
| Poison distributed, pounds.....            | 123   |
| Human bodies examined for plague infection | 4     |
| Bodies showing infection.....              | None. |

## CLASSIFICATION OF RODENTS.

|                       |     |
|-----------------------|-----|
| Mus rattus.....       | 11  |
| Mus alexandrinus..... | 79  |
| Mus norvegicus.....   | 225 |
| Mus musculus.....     | 55  |
| Not classified.....   | 26  |

The usual day and night patrol was maintained to enforce rat guarding and fending.

*Rodents examined in Tacoma.*

|  |    |
|--|----|
| Mus norvegicus trapped.....                | 2  |
| Mus norvegicus found dead.....             | 20 |
| Mus rattus found dead.....                 | 3  |
| Mus alexandrinus found dead.....           | 1  |
| Total.....                                 | 26 |
| Rodents examined for plague infection..... | 26 |
| Rodents proven plague infected.....        | 0  |

## HAWAII.

The following reports of plague-eradication work in Hawaii have been received from Surg. Trotter, of the United States Public Health Service:

## Honolulu.

## WEEK ENDED NOV. 21, 1914.

|                                     |     |   |                        |
|-------------------------------------|-----|---|------------------------|
| Total rats and mongoose taken.....  | 421 | Classification of rats trapped--Continued.        |                        |
| Rats trapped.....                   | 410 | Mus musculus.....                                 | 172                    |
| Mongoose trapped.....               | 7   | Mus norvegicus.....                               | 38                     |
| Rats found dead.....                | 0   | Mus rattus.....                                   | 32                     |
| Rats killed by sulphur dioxide..... | 4   | Classification of rats killed by sulphur dioxide: |                        |
| Examined microscopically.....       | 340 | Mus alexandrinus.....                             | 4                      |
| Showing plague infection.....       | 0   | Average number of traps set daily.....            | 1,085                  |
| Classification of rats trapped:     |     | Cost per rat destroyed.....                       | 20 $\frac{3}{4}$ cents |
| Mus alexandrinus.....               | 168 |   |                        |

## WEEK ENDED NOV. 28, 1914.

|                                    |     |  |           |
|------------------------------------|-----|--|-----------|
| Total rats and mongoose taken..... | 401 | Average number of traps set daily.....             | 1,085     |
| Rats trapped.....                  | 398 | Cost per rat destroyed.....                        | 21½ cents |
| Mongoose trapped.....              | 3   | Last case rat plague, Aiea, 9 miles from Honolulu, |           |
| Rats found dead.....               | 0   | Apr. 12, 1910.                                     |           |
| Examined microscopically.....      | 313 | Last case human plague, Honolulu, July 12, 1910.   |           |
| Showing plague infection.....      | 0   | Last case rat plague, Kalopa stable, Paauhau, Ha-  |           |
| Classification of rats trapped:    |     | waii, Aug. 29, 1914.                               |           |
| <i>Mus alexandrinus</i> .....      | 160 | Last case human plague, Paauhau Landing, Hawaii,   |           |
| <i>Mus musculus</i> .....          | 175 | Aug. 17, 1914.                                     |           |
| <i>Mus norvegicus</i> .....        | 51  |  |           |
| <i>Mus rattus</i> .....            | 12  |  |           |

## Hilo.

## WEEK ENDED NOV. 14, 1914.

|   |       |  |     |
|---|-------|--|-----|
| Rats and mongoose taken.....                    | 2,201 | Rats and mongoose plague infected.....         | 0   |
| Rats trapped.....                               | 2,159 | Classification of rats trapped and found dead: |     |
| Rats found dead.....                            | 3     | <i>Mus norvegicus</i> .....                    | 500 |
| Mongoose taken.....                             | 39    | <i>Mus alexandrinus</i> .....                  | 258 |
| Rats and mongoose examined macroscopically..... | 2,201 | <i>Mus rattus</i> .....                        | 525 |
|   |       | <i>Mus musculus</i> .....                      | 879 |